	Application No.	Applicant(s)	low
Notice of Allowability	10/600,466	LEE ET AL.	
	Examiner	Art Unit	
	Douglas W Owens	2811	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS nerewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in i) or other appropriate commur RIGHTS. This application is su	this application. If not inclu- nication will be mailed in du-	ded e course. <b>THIS</b>
1. $igstyle igstyle$ This communication is responsive to $\underline{\textit{the reply to the restr}}$	riction requirement filed May 24	<u>4, 2004</u> .	
2. ⊠ The allowed claim(s) is/are <u>9 and 10</u> .			
3. $\square$ The drawings filed on <u>23 June 2003</u> are accepted by the	Examiner.		
4. Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the:  1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 1. Certified copies of the certified copies of the priority of International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which gives a complete of the Notice of Draftspering including changes required by the Notice of Draftspering including changes required by the attached Examined Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in the DEPOSIT OF and/or INFORMATION about the department of the paper in the	ve been received. ve been received in Application occuments have been received " of this communication to file a MENT of this application.  mitted. Note the attached EXAL ves reason(s) why the oath or out the submitted. rson's Patent Drawing Review r's Amendment / Comment or in the header according to 37 CFR osit of BIOLOGICAL MATE	in this national stage application in this national stage application are ply complying with the results of the complex of the office action of the drawings in the front (not the complex of the complex	equirements  NOTICE OF
<ul> <li>Attachment(s)</li> <li>1. Notice of References Cited (PTO-892)</li> <li>2. Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3. Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date 6/23/03</li> <li>4. Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	6. ☐ Interview Su. Paper No./M /08), 7. ⊠ Examiner's A		llowance EXAMINER

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## **DETAILED ACTION**

## **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Joe McKinney Mundy on June 9, 2004.

The application has been amended as follows:

Cancel non-elected claims 1 – 8.

Change the title to read, "Method for Fabricating Semiconductor Device with Loop Line Pattern Structure".

Delete the last sentence of the Abstract, which reads, "By using the alternating phase shift mask to pattern gate-lines or active areas in a DRAM array, no unwanted image is created in the DRAM array and only one exposure is needed to achieve high resolution requirement.

## Allowable Subject Matter

- 2. Claims 9 and 10 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: The prior art does not teach, alone or in combination, a method of manufacturing DRAM chips including providing an alternating phase-shift mask with opaque lines having a dark loop and a portion enclosed and defined by the dark loop.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Douglas W Owens whose telephone number is 571-272-1662. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie C Lee can be reached on 571-272-1732. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DWO

EDDIE LEE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800